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Amazon.com: Definitive VoiceXML: Books: Adam Hocek,David Cuddihy

NET; Detailed coverage of text-to-**speech** and **automatic speech** ... He invented SGML, the Standard Generalized Markup Language on which both **XML and HTML** are ...
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File Format: PDF/Adobe Acrobat

user has selected which **XML** streams, **HTML** transcripts or ASR output is desired, ... that transcripts produced by **automatic speech** recognition contain many ...
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VoiceXML and Next-Generation Voice Services
An example that uses SSML elements to control **speech** and **audio** outputs is shown: <? **xml** .... XHTML 1.0 is a reformulation of **HTML** 4.0 into an **XML**. ...
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IEEE JNL	IEEE Journal or Magazine
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IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

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Sheikhzadeh, H.; Deng, L.;
Speech and Audio Processing, IEEE Transactions on
Volume 2, Issue 1, Part 2, Jan. 1994 Page(s):80 - 89
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Acoustics, Speech, and Signal Processing, 2000. ICASSP '00. Proceedings. 2000 IEEE International Conference on
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Il-Taek Lim; Byeong Gi Lee;
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25. **Study of the Design and Implementation of Speech Keyword Recognition System based on Streaming Media**
Chenyan, Z.; Shuqin, L.; Chengli, S.;
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Digital Object Identifier 10.1109/ICOSP.2006.345534

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Terms used:
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1 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.64 MB) Additional Information: full citation

2 Web content accessibility guidelines 1.0
Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs
July 2001 **interactions**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(471.98 KB) Additional Information: full citation, references, citings, index terms

3 Document analysis: NCL 2.0: integrating new concepts to XML modular languages
Heron V. O. Silva, Rogério F. Rodrigues, Luiz Fernando G. Soares, Débora C. Muchaluat Saade
October 2004 **Proceedings of the 2004 ACM symposium on Document engineering DocEng '04**
Publisher: ACM Press
Full text available: pdf(243.02 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the main new features of Nested Context Language (NCL) version 2.0. NCL 2.0 is a modular and declarative hypermedia language, whose modules can be combined to other languages, such as SMIL, to provide new facilities. Among the NCL 2.0 new features, we can highlight the support for handling hypermedia relations as first-class entities, through the definition of hypermedia connectors, and the possibility of specifying any semantics for a hypermedia composition, using the con ...

Keywords: NCL, SMIL, XConnector, XTemplate, composition template, framework for parsing and processing XML, hypermedia connector

4 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems
M. L. Kherfi, D. Ziou, A. Bernardi
March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1
Publisher: ACM Press

Full text available: pdf(294.13 KB) Additional Information: full citation, abstract, references, citings, index terms

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

5 Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(14.01 MB) Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

6 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(947.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

7 Towards efficient human machine speech communication: The speech graffiti project

Stefanie Tomko, Thomas K. Harris, Arthur Toth, James Sanders, Alexander Rudnicky, Roni Rosenfeld

February 2005 **ACM Transactions on Speech and Language Processing (TSLP)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(721.62 KB) Additional Information: full citation, abstract, references, citings, index terms

This research investigates the design and performance of the Speech Graffiti interface for spoken interaction with simple machines. Speech Graffiti is a standardized interface designed to address issues inherent in the current state-of-the-art in spoken dialog systems such as high word-error rates and the difficulty of developing natural language systems. This article describes the general characteristics of Speech Graffiti, provides examples of its use, and describes other aspects of the system ...

Keywords: Human-computer interaction, speech recognition, spoken dialog systems

8 Spoken dialogue technology: enabling the conversational user interface

Michael F. McTear
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1
Publisher: ACM Press

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

9 Session 2: Minimal-impact audio-based personal archives

Daniel P.W. Ellis, Keansub Lee
October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences CARPE'04**
Publisher: ACM Press

Full text available: pdf(458.13 KB) Additional Information: full citation, abstract, references, citings, index terms

Collecting and storing continuous personal archives has become cheap and easy, but we are still farfromcreating a useful, ubiquitous memory aid. We view the inconvenience to the user of being 'instrumented'as one of the key barriers to the broader development and adoption of these technologies. Audio-only recordings,however, can have minimal impact, requiring only that a device the size and weight of a cellphone be carried somewhere on the person. We have conducted some small-scale experiment ...

Keywords: archives, audio, clustering, diary, recording, segmentation, sound

10 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(300.97 KB) Additional Information: full citation, abstract, citings, index terms

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

Keywords: Database, XML

11 XRel: a path-based approach to storage and retrieval of XML documents using relational databases

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Publisher: ACM Press

Full text available: pdf(264.27 KB) Additional Information: full citation, abstract, references, citings, index

terms, review

This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables according to the node type, with path information from the root to each node. XRel enables us to store XML documents using a fixed relational schema without any information about DTDs and also to utilize indices such as the B+

Keywords: XML query, XPath, text markup, text tagging

12 Papers: On the move: From desktop to phonetop: a UI for web interaction on very small devices

Jonathan Trevor, David M. Hilbert, Bill N. Schilit, Tzu Khiau Koh

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology UIST '01**

Publisher: ACM Press

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, citings, index terms

While it is generally accepted that new Internet terminals should leverage the installed base of Web content and services, the differences between desktop computers and very small devices makes this challenging. Indeed, the browser interaction model has evolved on desktop computers having a unique combination of user interface (large display, keyboard, pointing device), hardware, and networking capabilities. In contrast, Internet enabled cell phones, typically with 3-10 lines of text, sacrifice ...

Keywords: PDA, Web browsing, transcoding, transducing, web phone, wireless web

13 Cross-modal interaction using XWeb

Dan R. Olsen, Sean Jefferies, Travis Nielsen, William Moyes, Paul Fredrickson

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology UIST '00**

Publisher: ACM Press

Full text available: pdf(200.30 KB) Additional Information: full citation, references, citings, index terms

Keywords: cross-modal interaction, network interaction, screen layout, speech interfaces

14 Web accessibility: Improving the accessibility of aurally rendered HTML tables

Robert Filepp, James Challenger, Daniela Rosu

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies Assets '02**

Publisher: ACM Press

Full text available: pdf(1.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Current techniques employed to aurally render HTML tables often result in output that is very difficult for sight-impaired users to understand. This paper proposes TTPML, an XML-compliant markup language, which facilitates the generation of prose descriptions of tabular information. The markup language enables content creators to specify contextual reinforcement of, and linear navigation through, tabular information. The markup language may be applied to pre-existing Web content and is reusable ...

Keywords: Web accessibility, XML, aural interfaces, tables

15 Multimodal architectures and frameworks: Architecture and implementation of

multimodal plug and play
Christian Elting, Stefan Rapp, Gregor Möhler, Michael Strube
November 2003 **Proceedings of the 5th international conference on Multimodal interfaces ICMI '03**
Publisher: ACM Press

Full text available: pdf(228.78 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the handling of multimodality in the Embassi system. Here, multimodality is treated in two modules. Firstly, a modality fusion component merges speech, video traced pointing gestures, and input from a graphical user interface. Secondly, a presentation planning component decides upon the modality to be used for the output, i.e., speech, an animated life-like character (ALC) and/or the graphical user interface, and ensures that the presentation is coherent and cohesive. We des ...

Keywords: dialog systems, multimodal, multimodal fission, multimodal fusion

16 Making computers disappear: appliance data services
Andrew C. Huang, Benjamin C. Ling, John Barton, Armando Fox
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**
Publisher: ACM Press

Full text available: pdf(691.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

17 Putting FrameNet data into the ISO linguistic annotation framework
Srinivas Narayanan, Miriam R. L. Petruck, Collin F. Baker, Charles J. Fillmore
July 2003 **Proceedings of the ACL 2003 workshop on Linguistic annotation: getting the model right - Volume 19**
Publisher: Association for Computational Linguistics
Full text available: pdf(95.26 KB) Additional Information: full citation, abstract, references

This paper describes FrameNet (Lowe et al., 1997; Baker et al., 1998; Fillmore et al., 2002), an online lexical resource for English based on the principles of frame semantics (Fillmore, 1977a; Fillmore, 1982; Fillmore and Atkins, 1992), and considers the FrameNet database in reference to the proposed ISO model for linguistic annotation of language resources (ISO TC37 SC4)(ISO, 2002; Ide and Romary, 2001b). We provide a data category specification for frame semantics and FrameNet annotations in ...

18 Indexing and searching tera-scale Grid-Based Digital Libraries
Robert Sanderson, Ray R. Larson
May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**
Publisher: ACM Press

Full text available: pdf(138.30 KB) Additional Information: full citation, abstract, references, cited by, index terms

The University of California, Berkeley and the University of Liverpool in conjunction with the San Diego Supercomputer Center are developing a framework for Grid-Based Digital Library systems and Information Retrieval Services (Cheshire3) that operates in both single-processor and distributed computing environments. In this paper we discuss some results of testing Grid-based parallel approaches in indexing and retrieval for a variety of information resources, ranging from small test collections ...

19 Making chalk and talk accessible

S. Bennett, J. Hewitt, D. Kraithman, C. Britton

June 2002 **ACM SIGCAPH Computers and the Physically Handicapped , Proceedings of the 2003 conference on Universal usability CUU '03**, Issue 73-74

Publisher: ACM Press

Full text available: pdf(252.21 KB) Additional Information: full citation, abstract, references, index terms

This paper investigates the development of an authoring package designed to mimic traditional "chalk and talk" delivery of content in education. It emphasizes the twin goals of making the output more accessible both for those with disabilities and for distance learners and also making the package usable by academic staff without requiring extensive training. It deals with issues arising from the capture of the material, the compromises and conflicts which are made in the satisfaction of accessib ...

Keywords: SMIL, XML, accessibility, authoring system, speech recognition

20 Orthographic Errors in Web Pages: Toward Cleaner Web Corpora

Christoph Ringlstetter, Klaus U. Schulz, Stoyan Mihov

September 2006 **Computational Linguistics**, Volume 32 Issue 3

Publisher: MIT Press

Full text available: pdf(987.55 KB) Additional Information: full citation, abstract, references

Since the Web by far represents the largest public repository of natural language texts, recent experiments, methods, and tools in the area of corpus linguistics often use the Web as a corpus. For applications where high accuracy is crucial, the problem has to be faced that a non-negligible number of orthographic and grammatical errors occur in Web documents. In this article we investigate the distribution of orthographic errors of various types in Web pages. As a by-product, methods are develop ...

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